Möglichkeiten zur Nutzung elektronischer Ressourcen bei der Entwicklung wirtschaftlicher Fähigkeiten von Schülern im eigenständigen Bildungsprozess

Kadirova Maraljan Matyakubovna,

Doktorandin der Grundausbildung an der Bukhara State University, durdiev65@mail.ru Bukhara 200184, Usbekistan

Zusammenfassung: Dieser Artikel bietet grundlegende Konzepte und Beispiele, die zur Entwicklung wirtschaftlicher Fähigkeiten beitragen, und behandelt die wirtschaftliche Bildung, Ausbildung und wirtschaftliche Informationen im Detail. Es wurden Informationen zu Bildungsressourcen aus Industrieländern bereitgestellt, einschließlich E-Learning-Ressourcen für das globale Netzwerk.

Schlüsselwörter: E-Learning-Ressourcen, E-Bibliotheken, moderne Bildungstechnologien, Spieltechnologien, programmierte Lerntechnologien, modulare Lerntechnologien, Unternehmertum und Wirtschaftswissen.

Opportunities to use electronic resources in the development of economic skills of students in the independent educational process

Kadirova Maraljan Matyakubovna, basic doctoral student of Bukhara State University, durdiev65@mail.ru Bukhara 200184, Uzbekistan

Abstract: This article provides basic concepts and examples that help to develop economic skills, and covers economic education, training, and economic information in detail. Information was provided on educational resources from developed countries, including e-learning resources for the global network.

Keywords: e-learning resources, e-libraries, modern educational technologies, game technologies, programmed learning technologies, modular learning technologies, entrepreneurship, and economic knowledge.

Introduction.

The aim of the research is to organize independent learning activities effectively in higher education institutions in the formation of students' economic skills.

Material and research methods. The role of modern e-learning resources in the effective organization of independent learning activities of students in higher education institutions and, as a result, to increase students' interest in science, motivation, development of creative abilities and professional competence and shaping options are explored.

Results. Using the methodology developed in the study, it was found that the competence of students in the basics of economics in higher education increased by 10.25%.

Educational technologies play a leading role in the formation of economic skills in students in the educational process. Today, the following types of educational technologies are widely used: game technologies, problem-based learning technology, differentiated learning technology, individualized learning technology,

Berlin Studies Transnational Journal of Science and Humanities ISSN 2749-0866 Vol.1 Issue 1.5 Pedagogical sciences http://berlinstudies.de/

programmed learning technology, computer-assisted learning technology, modular learning technology, case study teaching technology, creative teaching technology, developmental learning technology, full mastery technology, teaching technology based on a systematic activity approach, teaching technology based on a science activity approach.

In today's market economy, it is important for students to have economic knowledge. Economic knowledge develops people's foresight, forecasting, and planning skills, protects them from many mistakes, and encourages them to make calculations. Economic concepts are theoretical knowledge used in the study of economics, which is a scientific expression of real economic reality. They are divided into two groups: General economic concepts - concepts specific to all stages of economic development, such as labor, production, products, labor, resources. Some concepts specific to the socio-economic system, such as money, demand, supply, valuation, credit, emissions, inflation, are specific to some systems. Economic theory describes economic laws based on the generalization of the characteristics of economic processes and events.

Economic education is the introduction of the basics of economics, the development of the ability to think about thrift, diligence, initiative, entrepreneurship, economic accounting, and so on. Economic knowledge is a set of knowledge, skills, competencies and worldviews acquired and systematized as a result of economic education and training [14]. The economic skills acquired by students in the process of independent study can be defined on the basis of the following qualities: entrepreneurship, initiative, economic knowledge, speed, honesty, thrift.

However, due to the rapid development of modern times and the emergence of new approaches to teaching, it seems that the teaching methods and tools used are outdated and do not fully meet the requirements of today's world [1]. Therefore, it is important to develop new mechanisms for the introduction of information and communication technologies, including e-learning resources, in order to effectively and modernize the independent learning of students studying in higher education institutions [6].

Differentiated learning technology is based on a general didactic system that allows for the specialization of the learning process in specially organized homogeneous groups of students. Programmed learning technology is a form of rapid internal and external feedback that programmed learning requires from the educator and the student. Internal feedback is the continuous analysis of a student's mastery of a learning material. External feedback is the continuous assessment of the student's mastery of the learning material by the educator or manager-teacher device. The implementation of these educational technologies is directly related to the independent activities of students.

Materials and research methods: One of the most effective ways is to organize the independent study of students studying in higher education institutions with the help of e-learning resources for the global network. There are many types of e-learning resources available today, and the following are examples.

As a result, the following opportunities are created [1,6]:

Berlin Studies Transnational Journal of Science and Humanities ISSN 2749-0866 Vol.1 Issue 1.5 Pedagogical sciences http://berlinstudies.de/

- Develops students' communication skills;
- Prepares a person with an information culture of the society;
- A wide range of learners learn and imagine;
- provides a clear explanation of complex processes and events;
- Forms and develops students' research skills and the ability to make optimal decisions.

Table 1: **E-learning resources**

	Views of e-learning resources
	Three-dimensional teaching aids
	Smart learning systems
	Teaching software
	Virtual laboratories
	Electronic simulators
	Video lectures
	Video clips
	Electronic crosswords
	Multimedia applications
0.	Self-Assessment Programs.

These types of e-learning resources allow you to describe different forms of science information, including the processes and events being studied. You will also have the opportunity to find answers to questions that arise in the process of learning new topics at any time [6]. Therefore, e-learning resources for the global network in higher education institutions serve as an important tool for independent study of the subject of demonstration experiments by students during laboratory classes in the natural and social sciences[1].

Special attention should be paid to the structure of e-learning resources and the formation of materials in them [12]:

- The content of the complex should be structured in such a way that neither the student nor the teacher has any difficulty in obtaining additional educational information:
- It is advisable to use a modular system in the formation of the structure of educational materials;
 - there should be an opportunity to organize independent education;
 - complete instructions on the study of educational materials;

Berlin Studies Transnational Journal of Science and Humanities ISSN 2749-0866 Vol.1 Issue 1.5 Pedagogical sciences http://berlinstudies.de/

- control tasks, self-examination questions and answers, practice tasks.

The use of multimedia technologies in the organization of the educational process on the basis of e-learning resources increases students' interest in reading, develops students' thinking skills based on the interactive nature of education and increases the effectiveness of learning materials. In addition, e-learning resources allow you to model and observe processes that are difficult or complex to demonstrate in real situations, depending not only on the level of mastery of learning materials, but also on the level of logic and perception of students also makes it effective [12].

E-learning resources in developed countries, including e-learning resources for the global network in countries such as the United States, Canada, Germany, the United Kingdom, Spain, France, Italy, Japan, China, South Korea and Russia widely, at the end of the 21st century, the use of open source teaching, including education through the global network, is expected to cover the whole world [9, 10, 11].

In the above-mentioned countries, e-learning resources are effectively used in the global network of independent study of students.

In this regard, digital technologies have been introduced in the higher education institutions of the country to effectively organize the process of education and upbringing in the context of distance learning. In order to organize education on the basis of these technologies, information and educational environments of higher education institutions, as well as systems for distance learning, such as MOODLE, HEMS have been created and educational resources were formed. Examples include modern virtual labs, computer simulators, diagonal programs, game learning resources, electronic textbooks, video lectures, 3D interactive teaching aids, electronic simulators, multimedia applications, e-books and encyclopedias.

Research results. Experimental work was carried out in higher education institutions aimed at developing students' scientific competencies in the basics of economics through the use of e-learning resources. The experimental work was carried out in 2021 at Bukhara State University, in which 56 students were involved in the experimental group and 64 students in the control group.

The results of the students involved in the experimental work were statistically analyzed based on the Student-Fisher criterion.

The mean values
$$\overline{X} = \frac{1}{n} \sum_{i=1}^{4} n_i X_i$$
, $\overline{Y} = \frac{1}{m} \sum_{j=1}^{4} m_j X_j$, $D_n = \sum_{i=1}^{4} \frac{n_i (x_i - \overline{X})^2}{n-1}$,

$$D_m = \sum_{j=1}^4 \frac{m_j (y_j - \overline{Y})^2}{m-1}$$
 dispersions were applied in using these criteria and in

determining the mastery index the formulas $A\% = \frac{\bar{X}}{4} \cdot 100\% - \frac{\bar{Y}}{4} \cdot 100\%$ were used. The results of the calculation showed that the mastering rate of the experimental group increased by 10.25% compared to the control group.

Conclusions

1. Improvement of algorithms and mechanisms for the use of modern elearning resources in the effective organization of independent learning activities of students in higher education institutions will further enrich the quality of education. As a result, students have the opportunity to increase their interest in science, motivation, develop and shape their creative abilities and professional competencies.

2. E-learning resources consist of a didactic, software and technical interactive set of teaching in a modern information technology environment, one of the advantages of which is learning through the formation of independent learning, creative thinking, skills and abilities, materials and scientific information.

REFERENCES

- 1. Bakhodirova U.B. Methodology of organization of students independent study activities in microbiology with the use of virtual education technologies // European Journal of Research and Reflection in Educational Sciences. EJRRES Vol.8, 2020. № 10. P. 111–117.
- 2. Lutfillaev M.H. Theory and practice of integration of information technologies in improving the educational process in higher education (on the example of computer science and natural sciences) // Dissertation for the degree of Doctor of Pedagogical Sciences. –Tashkent, 2007. 246 p.
- 3. Temirova M. Creation and use of virtual laboratories in the process of modular teaching of sciences // Scientific information of Tashkent State Pedagogical University. Tashkent, 2017–№ 1. B. 38–41.
- 4. Nikadambaeva H.B. Methods of using computer technology in teaching the subject "Natural Geography of Uzbekistan" (on the example of higher education) // Dissertation for the degree of Candidate of Pedagogical Sciences. Tashkent, 2012. 223 p.
- 5. Grigoryan V.G., Khimich P.G. The role of the supporter in the organization of independent work of students. Higher Education in Russia. 2009. –№11. 108-114 p.
- 6. Bakhodirova U.B. Improving the methodology of using virtual educational technologies in the teaching of microbiology (on the example of pedagogical higher education institutions) // Dissertation for the degree of Doctor of Philosophy (PhD) in Pedagogical Sciences. Karshi, 2020. 156 p.
- 7. Ibodova M.N. Methods of improving the independent work of students in biology through information resources (on the example of academic lyceums) // Abstract of the dissertation for the degree of Doctor of Philosophy (PhD) in pedagogical sciences. Tashkent, 2019. 49 p.
- 8. Ruziev R.A., Mirsanov U.M. Electronic information-educational resources on exact and natural sciences created on the Internet // Scientific bulletin of Navoi State Pedagogical Institute. 1 (5). Navoi, 2016. P. 20-23.
- 9. Mirsanov U.M. The experience of foreign countries in the introduction of electronic information and educational resources in specific disciplines in the educational process // Bulletin of the National University of Uzbekistan. Toshkent, 2017. № 5. B. 237–240.
- 10. Mirsanov U.M., Norbekov A.O., Ravshanova G.A. Using the experience of foreign countries in the introduction of e-learning resources in the educational process from the exact and natural sciences//Current issues of innovative cooperation

Berlin Studies Transnational Journal of Science and Humanities ISSN 2749-0866 Vol.1 Issue 1.5 Pedagogical sciences

http://berlinstudies.de/

in improving the quality of education International scientific online conference. - Navoi, - 2020. No 1. - p. 31–32.

- 11. Ratner F.L. Development of electronic educational resources: Foreign experience//Study guide in the direction of "Electronic educational resources".-Kazan: KGU, 2008. –104 p.
- 12. Allambergenova M. Kh. Creation of interactive educational complexes of computer science and their use in the educational process//Dissertation for the degree of Candidate of Pedagogical Sciences.— Tashkent, 2012. –117 p.
- 13. Fundamentals of Entrepreneurship and Business. Recommended as a textbook by the Center for Secondary Special, Vocational Education of the Ministry of Higher and Secondary and Special Education of the Republic of Uzbekistan. Tashkent "ILM-ZIYO" 2014.B-335 page 8-p.
- 14. Sadinov Kh.P, Kholikova L.N. "ECONOMIC PEDAGOGY" (Textbook) Samarkand, 2010.- 156 p.-5 p.